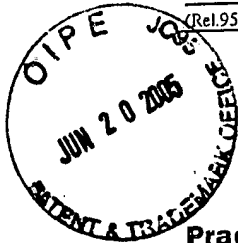


*Handwritten initials/signature in top right corner.*



Practitioner's Docket No. KNST 2 00038 **PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

☒ In re application of: Kumar, et al.

Application No.: 10 / 070,396      Group No.: 1762  
Filed: July 3, 2002      Examiner: Marianne L. Padgett  
For: FABRICATION OF ALIGNED LIQUID CRYSTAL CELL/FILM BY SIMULTANEOUS PHOTO-  
ALIGNMENT AND PHASE SEPARATION PROCESSES  
☐ Patent No\*:      Issued:

*\*NOTE: Insert name(s) of inventor(s) and title also for patent.*

**Commissioner for Patents**  
P.O. Box 1450, Alexandria, VA 22313-1450

**POWER OF ATTORNEY BY ASSIGNEE OF ENTIRE INTEREST  
(REVOCATION OF PRIOR POWERS)**

*NOTE: Submission of a Power of Attorney after issuance of the Notice of Allowance in an application does not result in a reduction in patent term adjustment under 37 C.F.R. § 1.704(c)(10). See Notice of May 29, 2001, 1247 OG 111-112, June 26, 2001.*

As assignee of record of the entire interest of the above identified

- ☒ application,
- ☐ patent,

**REVOCATION OF PRIOR POWERS OF ATTORNEY**

all powers of attorney previously given are hereby revoked and

**NEW POWER OF ATTORNEY**

the following attorney(s) and/or agent(s) are hereby appointed to prosecute and transact all business in the Patent and Trademark Office connected therewith.

*(list name and registration number)*

- James W. McKee, Reg. No. 26,482
- Scott A. McCollister, Reg. No. 33,961
- Joseph E. Waters, Reg. No. 50,427
- Robert M. Sieg, Reg. No. 54,446

*(check the following item, if applicable)*

- ☐ Attached, as part of this power of attorney, is the authorization of the above-named attorney(s) to accept and follow instructions from my representative(s).

**SEND CORRESPONDENCE TO:**

James W. McKee  
Fay, Sharpe, Fagan, Minnich & McKee, LLP  
1100 Superior Avenue  
Seventh Floor  
Cleveland, Ohio 44114

**DIRECT TELEPHONE CALLS TO:**

James W. McKee  
(216) 861-5582

Customer No.: 027885

**Kent State University**

(type or print identity of assignee of entire interest)

145 Auditorium Bldg., P. O. Box 5190

Address  
Kent, Ohio 44242-0001

- ☐ Recorded in PTO on \_\_\_\_\_  
Reel \_\_\_\_\_  
Frame \_\_\_\_\_  
☒ Recorded herewith

**ASSIGNEE STATEMENT**

Attached to this power is a "STATEMENT UNDER 37 C.F.R. § 3.73(b)."

Date 11/09/04

Signature

John L. West

(type or print name of person authorized to  
sign on behalf of assignee)

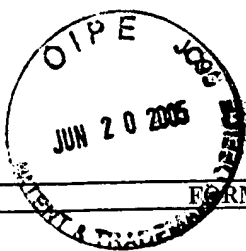
VP for Research and Dean of Graduate Studies

Title

NOTE: The assignee of the entire interest may revoke previous powers and be represented by an attorney of his or her selection. 37 C.F.R. § 1.36.

(check the following item, if it forms a part of this power of attorney)

- ☐ Added page—Authorization of attorney(s) to accept and follow instructions from representative.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**STATEMENT UNDER 37 CFR 3.73(b)**Applicant/Patent Owner: Kumar, et al.Application No./Patent No.: 10/070,396 Filed/Issue Date: July 3, 2002Entitled: FABRICATION OF ALIGNED LIQUID CRYSTAL CELL/FILM BY SIMULTANEOUS PHOTO-ALIGNMENT AND PHASE SEPARATION PROCESSESKent State University, a State University of the State of Ohio  
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title and interest.  
The extent (by percentage) of its ownership interest is \_\_\_\_\_ %  
in the patent application/patent identified above by virtue of either:

A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

OR

B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
2. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
3. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

☒ Copies of assignments or other documents in the chain of title are attached.  
[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

4-9-04  
Date  
1-330-672-2692  
Telephone number

John L. West

Typed or printed name

Signature

VP for Research and Dean of  
Title Graduate Studies

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, We, the undersigned, **Satyendra Kumar**, of 1981 Crossfield Circle, Kent, Ohio 44240, **Liang-Chy Chien**, of 4510 Forest Hill Road, Stow, Ohio 44224, and **Jae-Hoon Kim**, of 102-201 Woosung Apt., Toekye-Dong, Chunchon Kanwon-Do, Republic of Korea, who have created a certain invention for which a U.S. Patent Application has been

☐ executed concurrently herewith  
☐ executed on  
X filed July 3, 2002 and assigned Application Serial No. 10/070,396  
and is entitled

**FABRICATION OF ALIGNED LIQUID CRYSTAL CELL/FILM BY SIMULTANEOUS  
PHOTO-ALIGNMENT AND PHASE SEPARATION PROCESSES**

hereby sell, assign and transfer to **Kent State University**, ("Assignee"), having a place of business at **145 Auditorium Building, P. O. Box 5190, Kent, Ohio 44242-0001**, its successors, assigns, nominees or other legal representatives, the full, exclusive, entire worldwide rights, title and interest in, to, and under said invention as described and claimed in said application, including the provisional application from which it claims priority, the same to be held and enjoyed by Assignee for its own use and enjoyment, and for the use and enjoyment of its successors, assigns, nominees, or other legal representatives, to the end of the term or terms for which said Letters Patent are or may be granted, reissued, or extended, as fully and entirely as the same would have been held and enjoyed by Inventors if this assignment and sale had not been made; all of the entire rights, title and interest in and to said invention and said application, and all original and reissued patents granted for said invention, and all divisions, reissues, continuations-in-part, and continuations of said application, including the subject matter of any and all claims which may be obtained in every patent, and the right, where such right can be legally exercised, in Assignee's own name to apply for and obtain patents in countries foreign to the United States, including the full right to claim for any such application the benefits of the International Convention and the Patent Cooperation Treaty as fully and entirely as Inventors could have done if the foreign application had been filed in the names of the Inventors, and the entire interest in any Letters Patent which may be granted on any such application in such foreign countries, and Inventors authorize and request the Commissioner of Patents of the United States, and any official of any country or countries foreign to the United States whose duty is to issue patents on applications as aforesaid, to issue the said Letters Patent to Assignee, its successors, assigns, nominees, or other legal representatives, as Assignee and owner of the said entire rights, and Inventors covenant that Inventors have the full right to convey the said entire interest herein assigned and that Inventors have not executed

Inventors further covenant and agree that Inventors will, at any time upon request, do everything possible to aid Assignee, its successors, assigns, nominees, or other legal representatives, either in the name of Inventors or Assignee, to apply for, obtain, and enforce proper patent protection for said invention in all countries, according to the International Convention and the Patent Cooperation Treaty, and all the laws and treaties in force, all without further consideration but at the expense of Assignee, its successors, assigns, nominees, or other legal representatives.

Satyendra Kumar  
Satyendra Kumar

On this 3 day of November 2004, before me personally came Satyendra Kumar, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Notary Public

Notary Public, State of Ohio

My commission expires December 16, 2008

Seal

Signed at Kent on 11/10/2004, 2004.

Liang-Chy Chien  
Liang-Chy Chien

State of )  
County of )ss:  
)

On this 10 day of November 2004, before me personally came Liang-Chy Chien, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Carol M. Toncar  
Notary Public

Seal

CAROL M. TONCAR  
Notary Public, State of Ohio  
My commission expires December 16, 2008

Signed at \_\_\_\_\_ on \_\_\_\_\_, 2004.

\_\_\_\_\_  
Jae-Hoon Kim

**Witnesses:**

\_\_\_\_\_  
Printed Name:

\_\_\_\_\_  
Printed Name:

Signed at \_\_\_\_\_ on \_\_\_\_\_, 2004.

\_\_\_\_\_  
Liang-Chy Chien

State of \_\_\_\_\_

)  
)ss:

County of \_\_\_\_\_

)

On this \_\_\_\_\_ day of \_\_\_\_\_, before me personally came Liang-Chy Chien, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

\_\_\_\_\_  
Notary Public

Seal

Signed at X 20<sup>th</sup> on X May, 2004<sup>5</sup>.

X Jae-Hoon Kim  
Jae-Hoon Kim

Witnesses:

X Hak-Rin Kim

Printed Name:

Min Young Jin

Printed Name: